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FEBRUARY 21, 2001

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FERNANDEZ & ASSOCIATES, LLP
DENNIS FERNANDEZ, ESQ.
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MENLO PARK, CA 94026-6204



101549596A

UNITED STATES PATENT AND TRADEMARK OFFICE
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DATE: 2/27/2001 *ch*

RECORDATION COVER SHEET FOR ASSIGNMENT

The Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Please record the attached original documents or copy thereof.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1. Name of conveying party:

Inventor(s): **NADJ, PAUL****CARR, DAVID W.****FUNNEKOTTER, EDWARD D.**

Execution Date:

2/27/20012/27/20012/27/2001

Serial No: 09/727,534

Filed: 11/28/2000

Group Art Unit: (Not yet assigned)

Examiner: (Not yet assigned)

2. Name and Address of

Receiving party: **SILICON ACCESS NETWORKS, INC.**
211 RIVER OAKS PARKWAY
SAN JOSE, CA 95134

3. Nature of Conveyance: Assignment

4. Patent Application(s) / Patent Number(s): 09/727,534

New Patent Application Entitled:

DATA STRUCTURE AND METHOD FOR PIPELINE HEAP-SORTING

5. Name and address of party to whom correspondences concerning document should be mailed:

Name: **DENNIS S. FERNANDEZ, ESQ.**

Address: **FERNANDEZ & ASSOCIATES, LLP**
PATENT ATTORNEYS
PO BOX D
MENLO PARK, CA 94026-6204
PHONE: (650) 325-4999 FAX: (650) 325-1203
EMAIL: *iploft@iploft.com*

6. Total Number of applications and patents involved: ONE

7. Fee Calculation

Assignment Recordation Fee \$40.00

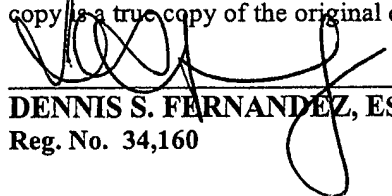
Total Fees (37 CFR 3.41): \$40.00 Enclosed Authorized to be charged to Deposit Account

8. Deposit Account Number:

In case Applicant inadvertently miscalculated any required fee, the Commissioner is hereby authorized to charge the necessary additional amount associated with this communication or credit any overpayment to **Deposit Account No: 500482**. A duplicate copy of this authorization is enclosed.

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.


DENNIS S. FERNANDEZ, ESQ.
Reg. No. 34,160

Date: 3/6/2001

ASSIGNMENT

Whereas, We, **PAUL NADJ, DAVID W. CARR** and **EDWARD D. FUNNEKOTTER**, having agreed to assign the below identified invention to **SILICON ACCESS NETWORKS, INC.** ("SILICON ACCESS NETWORKS, INC."), a Delaware corporation having its principal place of business at **211 River Oaks Parkway, San Jose, CA 95134** for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign, and transfer unto **SILICON ACCESS NETWORKS, INC.**, its successors and assigns, the entire right, title, and interest, including the right of priority in, to and under an application for Letters Patents of the United States entitled:

DATA STRUCTURE AND METHOD FOR PIPELINE HEAP-SORTING

 filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or

 X Serial No.: 09/727,534, filed on 11/28/2000 and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, we agree promptly upon request of **SILICON ACCESS NETWORKS, INC.**, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional, or reissue, or other papers which may be necessary or desirable fully to secure to **SILICON ACCESS NETWORKS, INC.**, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent.

Inventor's Signature: _____

PAUL NADJDate: 2001 / FEB / 27

Inventor's Signature: _____

DAVID W. CARRDate: FEB / 27 / 2001

Inventor's Signature: _____

EDWARD D. FUNNEKOTTERDate: Feb. 27, 2001

**DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, postal address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original first and joint inventor (if multiple names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

DATA STRUCTURE AND METHOD FOR PIPELINE HEAP-SORTING

the specification of which is attached hereto unless the following information is indicated:

X was filed on 11/28/2000;
as United States Application Number or PCT International Application Number 09/727,534;
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendments referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified, as so indicated below, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

(Application No.) (Country) (Day/Month/Year Filed) Yes No

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

(Application No.) (Day/Month/Year Filed)

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. 1.56 that became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application No.) (Day/Month/Year Filed) (Status - patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

DENNIS S. FERNANDEZ, REG. NO. 34,160

PETER C. SU, REG. NO. 43,939

Send Correspondence and Communications to:

FERNANDEZ & ASSOCIATES, LLP
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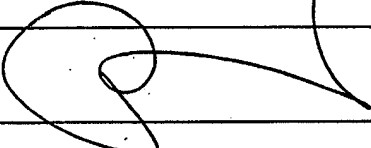
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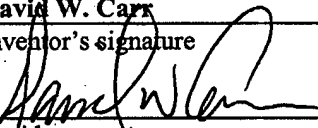


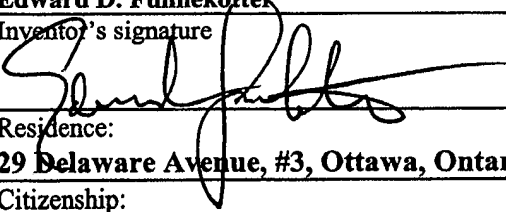
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PATENT TRADEMARK OFFICE

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and beliefs are believed to be true; and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Paul Nadj	
Inventor's signature 	Date 2001 / FEB / 27
Residence: Apt 604, 2881 Richmond Rd, Ottawa, ON, Canada, K2B 8J5	
Citizenship: CANADA	
Postal Address: 1600 Scott Street, Tower B, Third Floor, Ottawa, Ontario, Canada, K1Y 4N7	

Full name of sole or first inventor: David W. Carr	
Inventor's signature 	Date FEB / 27 / 2001
Residence: 16 Sarrazin Way, Nepean, Ontario, Canada, K2J 3Z5	
Citizenship: CANADA	
Postal Address: SAME AS RESIDENCE	

Full name of sole or first inventor: Edward D. Funnekotter	
Inventor's signature 	Date Feb 27, 2001
Residence: 29 Delaware Avenue, #3, Ottawa, Ontario, Canada, K2P 0Z2	
Citizenship: CANADA	
Postal Address: SAME AS RESIDENCE	